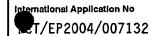
' INTERNATIONAL SEARCH REPORT



A. CLASSIFICATION OF SUBJECT MATTER IPC 7 F16L37/091 F16L33/22

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC $\,\,7\,\,$ F16L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

ENTS CONSIDERED TO BE RELEVANT	
Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
EP 1 178 255 A (PEGLER LTD) 6 February 2002 (2002-02-06)	1-3,5,9, 10
column 2, line 56 - column 3, line 9 column 5, line 25 - column 7, line 8 column 7, line 22 - column 8, line 12; figures 2,3,3A,5	4,6,8
DE 102 21 971 A (FRIATEC AG) 12 June 2003 (2003-06-12)	1,3,4,9, 10
abstract; figure 1	5,8
US 2003/067170 A1 (DOLE DOUGLAS R ET AL) 10 April 2003 (2003-04-10)	1,3,4,9, 10
paragraph '0049! paragraph '0063! figures 2,3	2,5,6,8
-/	
	EP 1 178 255 A (PEGLER LTD) 6 February 2002 (2002-02-06) column 2, line 56 - column 3, line 9 column 5, line 25 - column 7, line 8 column 7, line 22 - column 8, line 12; figures 2,3,3A,5 DE 102 21 971 A (FRIATEC AG) 12 June 2003 (2003-06-12) cited in the application abstract; figure 1 US 2003/067170 A1 (DOLE DOUGLAS R ET AL) 10 April 2003 (2003-04-10) paragraph '0049! paragraph '0063!

X Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
Special categories of cited documents: 'A' document defining the general state of the art which is not considered to be of particular relevance 'E' earlier document but published on or after the international filing date 'L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) 'O' document referring to an oral disclosure, use, exhibition or other means 'P' document published prior to the international filing date but later than the priority date claimed	 'T' later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention 'X' document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone 'Y' document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combined with one or more other such documents, such combination being obvious to a person skilled in the art. '&' document member of the same patent family
Date of the actual completion of the international search	Date of mailing of the international search report
8 September 2004	14/09/2004
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rtjswijk Tel. (+31–70) 340–2040, Tx. 31 651 epo nl, Fax: (+31–70) 340–3016	Authorized officer Vecchio, G

INTERNATIONAL SEARCH REPORT

International Application No T/EP2004/007132

		T/EP2004/007132
	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	Relevant to claim No.
Category °	Citation of document, with indication, where appropriate, of the relevant passages	nelevant to Claim No.
A	FR 2 830 071 A (LEGRIS SA) 28 March 2003 (2003-03-28) page 4, line 23 - page 5, line 22; figure 1	1,3-5,9, 10 ·
A	DE 85 36 760 U (SCHÄFER JOHANNES) 20 April 1989 (1989-04-20) figures 3,4,7,8	3,4,6
		·
	,	

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No T/EP2004/007132

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
EP 1178255 /	A	06-02-2002	EP	1178255	A2	06-02-2002
_,			GB	2365938	A,B	27-02-2002
			GB		A ,B	09-06-2004
			GB	2395992	A ,B	09-06-2004
DE 10221971 A	Α	12-06-2003	DE	10221971	A1	12-06-2003
			CA	2468656	A1	05-06-2003
			WO	03046429	A1	05-06-2003
			EP	1448927	A1	25-08-2004
US 2003067170	A1	10-04-2003	US	2002185868	A1	12-12-2002
			US	2002135184	A1	26-09-2002
			WO	2004046602	A1	03-06-2004
			WO	03089827	A2	30-10-2003
			US		A1	17-04-2003
			TW		В	01-03-2003
			WO	02057673	A2	25-07-2002
FR 2830071 F	Α	28-03-2003	FR	2830071	A1	28-03-2003
			EP	1427959	A1	16-06-2004
			WO	03027562	A1	03-04-2003
DE 8536760	U	20-04-1989	DE	8536760	U1	20-04-1989